

**U.S. IOOS 2026 DMAC
ANNUAL MEETING**

DRAFT AGENDA

June 2-4, 2026

SILVER SPRING CIVIC BUILDING

One Veterans Place
Silver Spring, MD 20910

Virtual connection details provided after Registration

DAILY AGENDA:

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<p><u>Tues (June 2):</u> 09:00 – 10:30 Presentations/Plenary 10:30 – 11:00 Break 11:00 – 12:05 Presentations/Plenary 12:05 – 13:05 Lunch 13:05 – 14:35 Breakout Discussions 14:35 – 14:50 Break 14:50 – 15:05 Breakout Report Outs 15:05 – 16:50 Presentations/Plenary 16:50 Daily Wrap 17:00 Adjourn Day 1</p>	<p><u>Wed (June 3):</u> 09:00 – 10:25 Presentations/Plenary 10:25 – 10:55 Break 10:55 – 12:20 Presentations/Plenary 12:20 – 13:20 Lunch 13:20 – 14:50 Breakout Discussions 14:50 – 15:20 Break 15:20 – 15:35 Breakout Report Outs 15:35 – 16:35 Presentations/Plenary 16:35 Daily Wrap 16:45 Adjourn Day 2 17:30 Happy Hour–TBD</p>	<p><u>Thu (June 4):</u> 09:00 – 9:55 Presentations/Plenary 9:55 – 10:25 Break 10:25 – 11:45 Presentations/Plenary 11:45 – 12:45 Lunch 12:45 – 14:45 Breakout Discussions 14:45 – 15:00 Break 15:00 – 15:15 Breakout Report Outs 15:15 Daily Wrap 15:30 Adjourn Day 3</p>

*Please note that we are still confirming speakers and breakout leads, this is just to provide an idea of what the meeting could look like. We will send a more concrete draft in the coming weeks.

Tuesday, June 2, 2026

0830 **Arrival, coffee and breakfast provided**

0900 **Introduction/Meeting Kickoff** (Micah Wengren and Mathew Biddle, IOOS)

0910 **US IOOS Office Updates** (Krisa Arzayus, IOOS)

0930 **OceansMap Case Studies: AI for Oil Spill Response and FloodMap: focused water level / flood prediction instance** (Jenna Ducharme and Andrew Menton, Tetra Tech)

0945 **A lightweight, efficient, and robust machine-learning model for automatic QA/QC flag detection** (Thanh-Dung Le, Texas A&M)

1000 **ML based method for water level gap filling based on nearby tide gauges and met conditions** (Philippe Tissot, Texas A&M)

1015 **Applications of flexible, efficient binning for multi-dimensional data (time, space, depth) with Parquet files, utilizing H3 and Clickhouse** (Brian Stone and Aidan Lewis, Axiom Data Science)

1030 **Break**

1100 **The improved and modernized Tidal Analysis Datum Calculator and Status on the NTDE/NSRS** (Matt Conlin, NOAA)

1115 **NCEI updates** (Kristen Sauby and Ana Krelling, NOAA)

1130 **ERDDAP™ Data Usage Tracking** (TBD)

1145 **Cloud-Optimized DMAC Update** (Jonathan Joyce, Tetra Tech, and Shane St. Savage, Axiom Data Science)

1205 **Lunch (on your own)**

1305 **Breakout Discussions:**

#1: ERDDAP™ & Cloud / ERDDAP™ and THREDDS search options using LLMs to help users find relevant data sets

Leads: Filipe Pires Alvarenga Fernandes and Fred Bahr, MBARI

#2: Strategic scoping and road-mapping for coordinated use of AI/ML tools

Leads: Hassan Moustahfid, NOAA; Henry Ruhl, CeNCOOS Jorge Brenner, GCOOS; Kelly Knee, Tetra Tech; Aijun Zhang, NOAA

#3: Addressing Tidal Datum computation needs

Leads: Matt Conlin, NOAA; Connor Lewis-Smith, NOAA; Paul Fanelli, NOAA

1435 **Break**

1450 **Breakout Report Outs**

1505 **RA Round Robin**

1650 Daily Wrap

1700 Adjourn Day 1

Wednesday, June 3, 2026

0830 Arrival, coffee and breakfast provided

0900 Welcome (Micah Wengren and Mathew Biddle, IOOS)

0910 QARTOD Updates (TBD)

0925 ATN Update (Ryan Logan, NOAA)

0940 OTN Update (Jon Pye, Ocean Tracking Network)

0955 ONMS Sound and PACM: Foundations for PAM from raw data to metrics and co-designed products (Lindsey Peavey and Rebecca VanHoeck, NOAA)

1010 PAMHub: Integrating Ambient Sound into the Northeast Ocean Observing System (Jackie Motyka, NERACOOS and Cheryl Morse, Tetra Tech)

1025 Break

1055 Update to CETCEAN and Sea Turtle Atlas (Megan Howson, GCOOS)

1110 Multi-sensor tag metadata template for ATN (Alison Stimpert, San José State University)

1120 Handling big data challenges in delivering near real time, IFCB-derived HAB Classification concentration data (Josh Rhoades, Axiom Data Science)

1135 Met Ocean Data Link (MODL) project update (TBD)

1150 Data assimilation pipeline for novel observations (Nick Rome, COL/UCAR)

1200 Sanctuary Watch: Creating Data Pipelines from IOOS Products to the SW Web Platform (Jai Ranganathan, NOAA)

1220 Lunch (on your own)

1320 Breakout Discussions:

#1: Animal Tracking (OTN/ATN)

Leads: Ryan Logan, NOAA; Ryan Freedman, NOAA; Megan McKinzie, MBARI; Jon Pye, Ocean Tracking Network; Thomas Farrugia, AOOS

#2: Standardizing DMAC for HABs/Organizing and Publishing Biological data

Leads: Sheri Schwartz, Tetra Tech; Iwen Su, Tetra Tech; Marcus Ogle, GCOOS

#3: NDBC & Updates to Auto QC Limits and Future Plans

Leads: Ian Sears, NOAA; Dawn Petraitis, NOAA

1450 Break

1520 Breakout Report Outs

1535 Update on the Canadian Integrated Ocean Observing System (Jordan Watson, CIOOS Pacific)

1550 GLOS DMAC System updates: Front to back with Seagull and Seagull Coast (Joe Smith, Sneha Bhadbhade, and Mike Sutherland, GLOS)

1605 NANOOS Transect Tool for visualizing multi-depth model fields along a user-selected transect or at a point (Troy Tanner, NANOOS)

1620 NERACOOS Data Products for Operational Users (Tom Shyka, NERACOOS and Riley Young Morse, GMRI)

1635 Daily Wrap

1645 Adjourn Day 2

1730 Happy Hour (TBD)

Thursday, June 4, 2026

0830 Arrival, coffee and breakfast provided

0900 Welcome (Micah Wengren and Mathew Biddle, IOOS)

0910 NOS Core Model Evaluation Overview (TBD)

0920 IOOS Water Level Workshop Follow Up (Gabrielle Hillyer, IOOS Association)

0930 IOOS RA Plankton / HAB workshop Follow up (Gabrielle Hillyer, IOOS Association)

0940 Glider DAC Update (TBD)

0955 Break

1025 Metadata Input Mgmt Tool (Water Level and MODL Project prototypes) (Brian Stone and Shane St. Savage, Axiom Data Science)

1040 Data Management of Uncrewed Surface Vehicle (USV) Data: From NOAA Support to a Dedicated GDAC for USVs (Eugene Burger, NOAA and Ellen Koukel, University of Washington)

1055 IOOS HFRNet Elevation from UAT to PROD in the NCCF (TBD)

1110 CORA Project Update - Final products from GEC and Pacific progress (Analise Keeney, NOAA and Kelly Knee, Tetra Tech)

1125 Standardizing ERDDAP terminology and CF standards across RAs for WL data and metadata (Taylor Borgfeldt, AOOS)

1145 Lunch (on your own)

1245 Breakout Discussions

#1: Considerations of Tidal Datums with NOAA CO-OPS and IRA T2 Water Level Experts

Lead: Gabrielle Hillyer, IOOS Association

#2: Operational Modeling

Lead: Breanna Vanderplow, NOAA; Lucila Bloemendaal, NOAA

1445 Break

1500 Breakout Report Outs

1515 Daily Wrap

1530 Meeting Adjourn